BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Ramanna Garden in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

							Estimate Cost:		2000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	Ramanna Garden Burial Ground Road		1	150.00	1.00	0.90	135.00		
	3 rd Cross		2	180.00	0.60	0.45	97.20		
	Basic Rate	82.00					**232.20**	208.93	**48513.00**
	AD-HOC @ 11% of PWD SR 2016-17	9.02							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		197.10							
	Area Weightage @ 6%	11.83							
	Total	**208.93**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
	Ramanna Garden Burial Ground Road		1	150.00	1.00	0.15	22.50		
	Basic Rate	4867.00					**22.50**	5726.51	**128847.00**
	AD-HOC @ 11% of PWD SR 2016-17	535.37							
	Sub Total	**5402.37**							
	Area Weightage @ 6%	324.14							
	Total	**5726.51**							
3	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2016-17**	Cum							
	Drain Bottom Concrete		1	150.00	0.90	0.15	20.25		
	Side Wall		2	150.00	0.15	0.60	27.00		
	Raising of Drain		2x2	180.00	0.15	0.20	21.60		
	Basic Rate	5879.00					**68.85**	6917.23	**476251.00**
	AD-HOC @ 11% of PWD SR 2016-17	646.69							
	Sub Total	**6525.69**							
	Area Weightage @ 6%	391.54							
	Total	**6917.23**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2016-17**	Tonne							
	For Drain @ Consider 60 Kg / Cum		0.06	68.85			**4.13**	71310.20	**294582.00**
	Basic Rate	60607.00							
	AD-HOC @ 11% of PWD SR 2016-17	6666.77							
	Sub Total	**67273.77**							
	Area Weightage @ 6%	4036.43							
	Total	**71310.20**							
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2016-17**	Sqm							
	Side Wall		4	150.00		0.60	360.00		
			2x4	180.00		0.20	288.00		
	Basic Rate	293.00					**648.00**	344.74	**223394.00**
	AD-HOC @ 11% of PWD SR 2016-17	32.23							
	Sub Total	**325.23**							
	Area Weightage @ 6%	19.51							
	Total	**344.74**							
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete7.5 cms thick **Page No. 25 / Item No. 5.31.1/ PWD SR 2016-17**	Sqm							
	For Covering Slab		1	150.00		0.90	135.00		
			2	110.00		0.90	198.00		
	Basic Rate	628.00					**333.00**	738.90	**246055.00**
	AD-HOC @ 11% of PWD SR 2016-17	69.08							
	Sub Total	**697.08**							
	Area Weightage @ 6%	41.82							
	Total	**738.90**							
7	KSRB 5-9: Providing chamfering edges to stone slab 2.5cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 24 / Item No. 5.22 / PWD SR 2016-17**	m							
			627	3.00			**1880.00**	41.18	**77420.00**
	Basic Rate	35.00							
	AD-HOC @ 11% of PWD SR 2016-17	3.85							
	Sub Total	**38.85**							
	Area Weightage @ 6%	2.33							
	Total	**41.18**							
8	KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5-1.13 **Page No. 24 / Item No. 5.18 / PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 6				333.00		
	Basic Rate	909.00					**333.00**	1069.53	**356153.00**
	AD-HOC @ 11% of PWD SR 2016-17	99.99							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Sub Total	**1008.99**							
	Area Weightage @ 6%	60.54							
	Total	**1069.53**							
9	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2016-17**	Cum							
	Ramp		1	150.00	0.30	0.10	4.50		
			2	90.00	0.30	0.10	5.40		
	Bed Concrete		2	85.00	0.60	0.10	10.20		
	Basic Rate	5441.00					**20.10**	6401.88	**128678.00**
	AD-HOC @ 11% of PWD SR 2016-17	598.51							
	Sub Total	**6039.51**							
	Area Weightage @ 6%	362.37							
	Total	**6401.88**							
	Sub Total								**1979893.00**
	For Third Part QC inspection Charges @ 1%								**19799.00**
	Miscellaneous and other Charges	L/S							**308.00**
								Total	**2000000.00**
Rupees Twenty Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2017-18 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

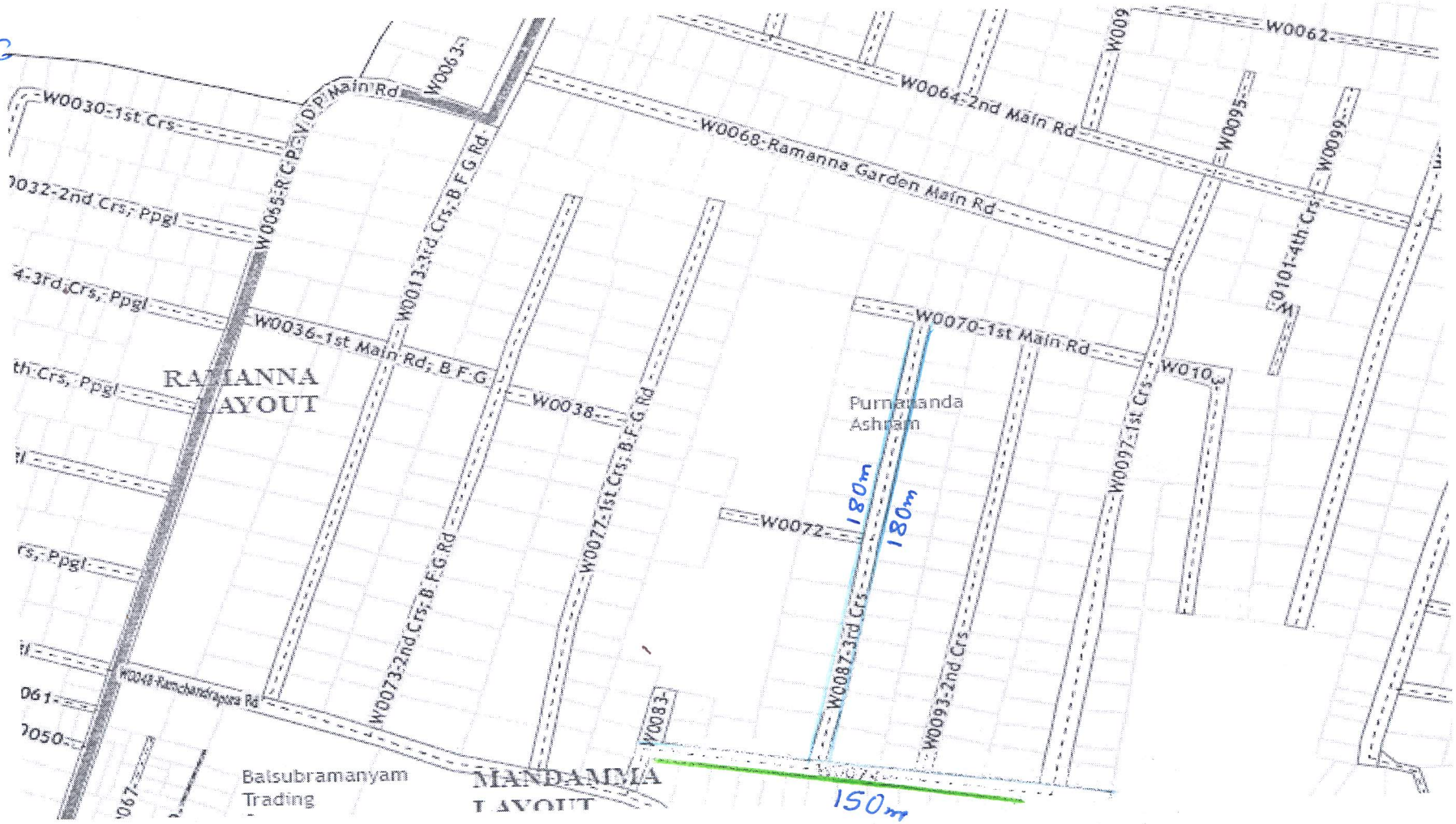
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
17/02

Administrative Approval
Accorded For .....
Head of A/C.....
CER NO : ..... DT...
TA DE (YNK)

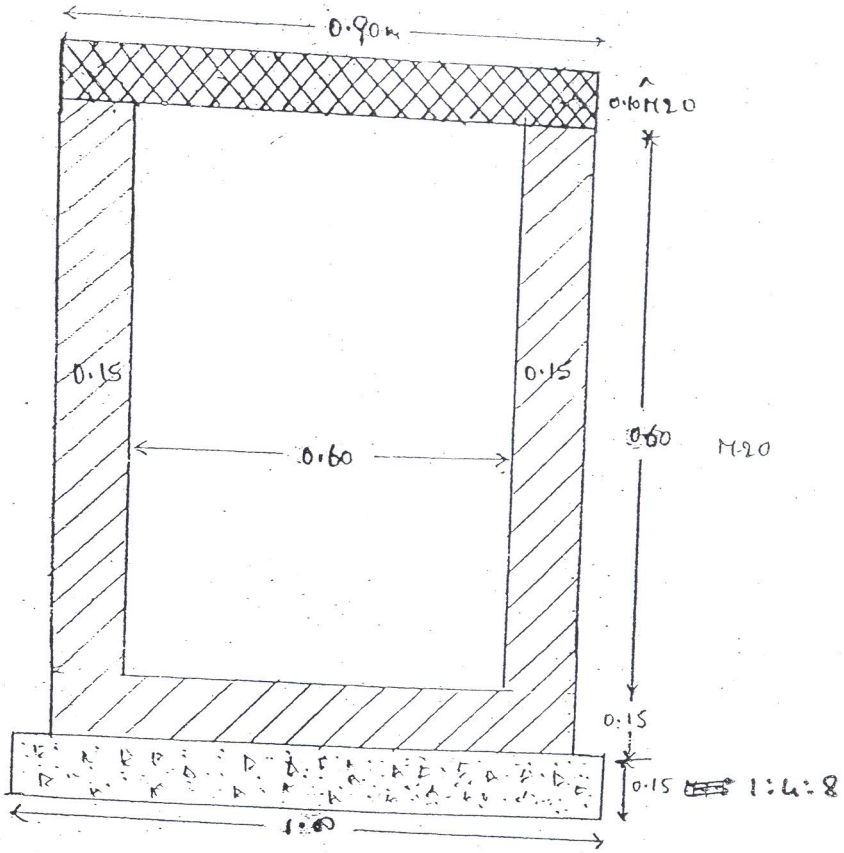
TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c. P-1771
Div. Ref. No. 114 Date 17/02/18
AE 17/02
EE(BTP) 17/02

Name of the work: Improvements to Roads and Drains in Ramanna Garden in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.



Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division



CROSS SECTION OF CC DRAIN

AE, W-CO